Antibiotic polyketide compounds are provided having the formula

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$$Z^{1}$$
 R_{3}
 R_{4}
 R_{2}
 R_{4}

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wherein:

R₁ and R₂ are the same or different and are independently H or R;

R is a structural fragment having a saturated or unsaturated linear, branched, or cyclic, skeleton containing one to ten carbon atoms in which the carbon atoms may be optionally substituted with a substituent selected from the group consisting of: -OH; =O; -OR₅; -O₂CR₅, -SH; -SR₅; -SOCR₅; -NH₂; -NHR₅; -NH(R₅)₂; -NHCOR₅; NRCOR₅; -I; -Br; -Cl; -F; -CN; -CO₂H; -CO₂R₅; -CHO; -COR₅; -CONH₂; -CONHR₅; -CON(R₅)₂; -COSH; -COSR₅; -NO₂; -SO₃H; -SOR₅; and -SO₂R₅, wherein R₅ is a linear, branched or cyclic, one to ten carbon saturated or unsaturated alkyl group;

 R_3 and R_4 are different and are independently selected from the groups consisting of OH,

(a)

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(b) -O-Z-Ar

wherein.

Z¹ and Z are linear or branched, saturated or unsaturated, one to ten carbon fragments
 optionally substituted with Y;

Ar is a monocyclic, bicyclic or tricyclic, fully or partially aromatic system containing five or six membered carbocyclic or, oxygen, nitrogen or sulphur containing heterocyclic rings, optionally substituted with R or Y;

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Y is selected from the group consisting of: H; =O, -OH; -OR; -O₂CR; -SH; -SR; -SOCR; -NH₂; -NHR; -NH(R)₂; -NHCOR; NRCOR; -I; -Br; -Cl; -F; -CN- -CO₂H; -CO₂R; -CHO; -COR; -CONH₂; -CONHR; -CON(R)₂; -COSH; -COSR; -NO₂; -SO₃H; -SOR; -SO₂R; and, -O- (epoxide);

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W is H or R;

with the provisos that when W is H, R_2 is not H; when R_2 is CH_3 , W is not n-propyl; and, one of R_3 and R_4 is (a) or (b) and another of R_3 and R_4 is OH.